



# Site Report

**Report Name** Case Studies II  
**Report Date** 08/06/2010 6:46:19 PM  
**Declination** -10d 19m  
**Location** Lat/Long specified  
**Lat/Long** 43.67 / -79.63  
**Weather Station** Toronto Int'l, ON, Elevation: 568 Feet, (43.667/-79.633)  
**Site distance** 0 Miles

**Report Type** PV

**Array Type** Fixed  
**Tilt Angle** 43.67 deg  
**Ideal Tilt Angle** 43.67 deg  
**Azimuth** 180.00 deg  
**Ideal Azimuth** 180.00 deg

**Electric Cost** 0.802 (\$/KWH)

**Panel Make** Sanyo Electric Co. Ltd.  
**Panel Model** HIP-210NKHA5  
**Panel Count** 24  
**DC Rate (per panel)** 210.0 W  
**Total System Size** 5,040.0 W  
**Inverter Make** SMA America  
**Inverter Model** SB7000US (240V)  
**Inverter Count** 1  
**Derate Method** System Setting  
**Derate Factor** 0.800

**Layout Configuration** SinglePicture  
**Layout Point Count** 1

**Notes:** Shading Analysis

Report generated by SolarPathfinder Assistant Version 4.1.15.0. <http://www.solarpathfinder.com>

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# System Picture Layout

Layout Type      Single Picture  
Layout Point Count 1

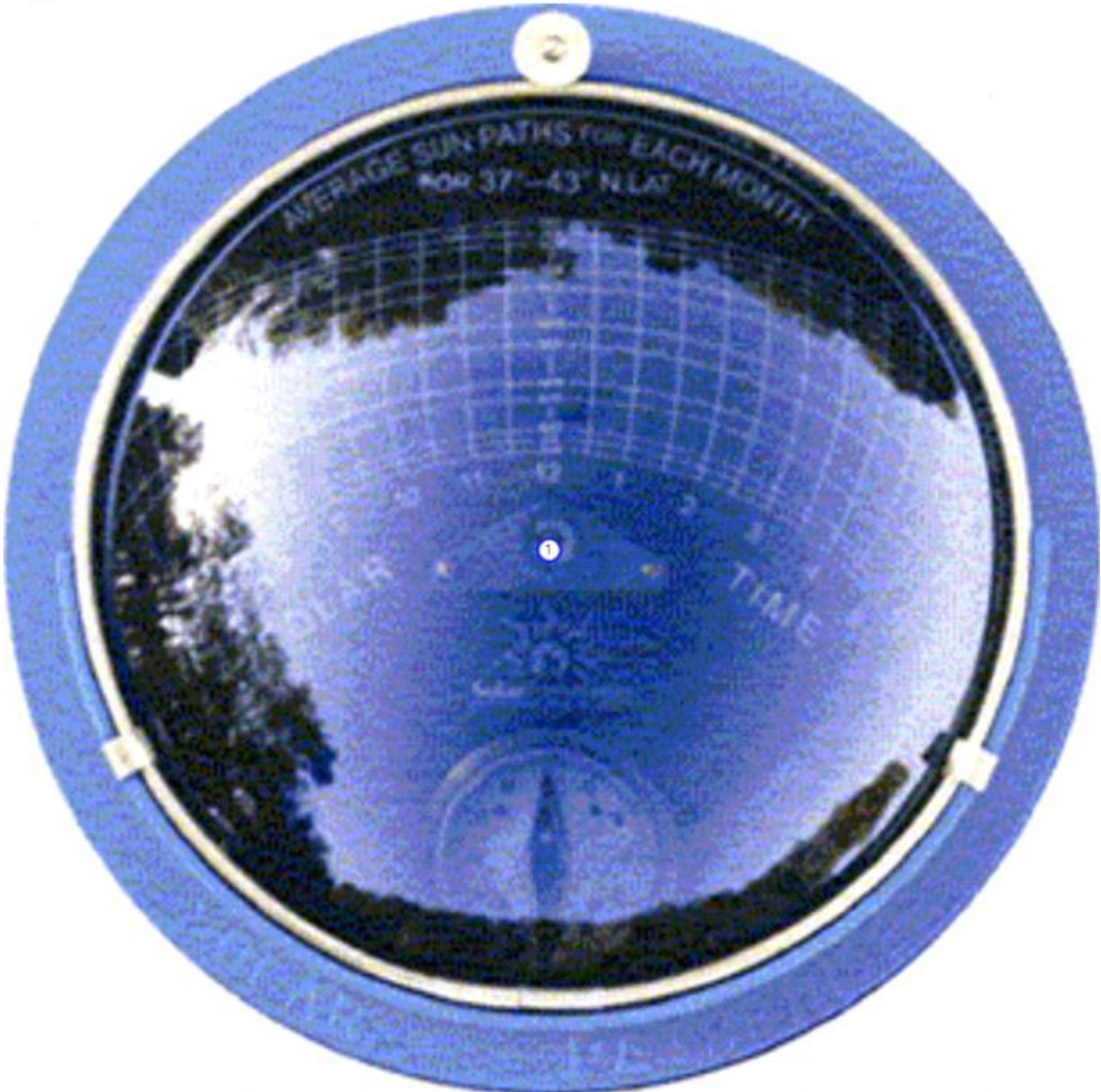




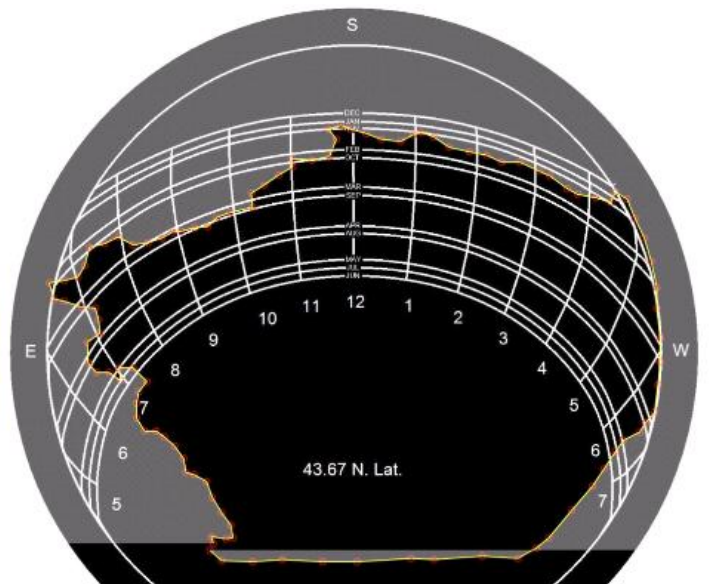
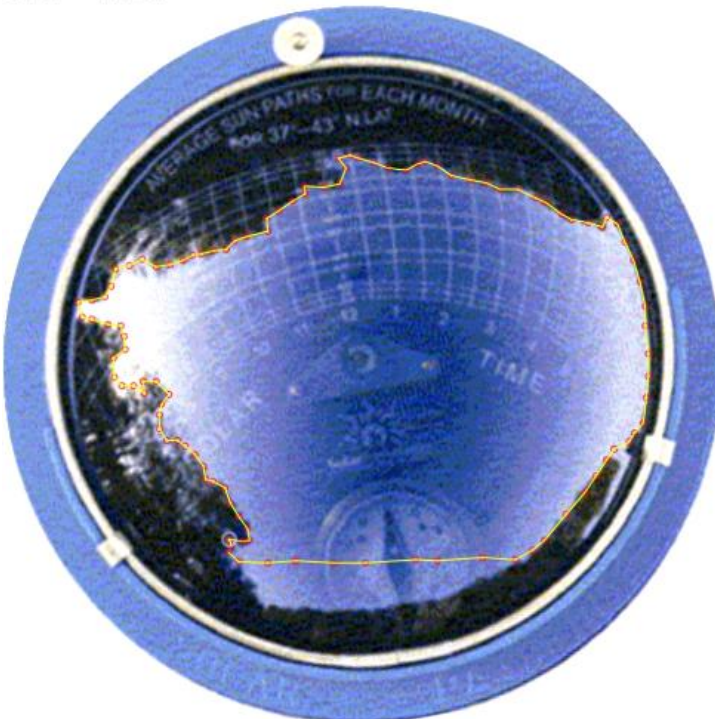


Image File Pathfinder\_Pic.gif

## Solar Obstruction Data

Month	Unshaded % of Ideal Site Azimuth=180 Tilt=43.67	Actual Solar Rad w/ Shading Azimuth=180.0 Tilt=43.67 KWH/m <sup>2</sup> /day	Actual AC Energy (KWH) w/ shading Azimuth=180.0 Tilt=43.67	Actual AC Energy (KWH) w/o shading Azimuth=180.0 Tilt=43.67	Ideal AC Energy (KWH) w/o shading Azimuth=180.0 Tilt=43.67	Solar Cost Savings \$0.80/KWH	PVWatts Unshaded % Actual Site Azimuth=180.0 Tilt=43.67	Actual Site Efficiency % Azimuth=180.0 Tilt=43.67	Ideal Site Efficiency % Azimuth=180.0 Tilt=43.67
January	1.00%	0.06	6.12	357.00	357.00	\$4.91	2.07 %	2.07 %	2.07 %
February	63.00%	2.29	270.39	414.00	414.00	\$216.85	65.11 %	65.11 %	65.11 %
March	80.00%	3.24	408.02	507.00	507.00	\$327.23	80.48 %	80.48 %	80.48 %
April	99.00%	4.69	553.00	553.00	553.00	\$443.51	99.30 %	99.30 %	99.30 %
May	98.00%	5.21	621.07	624.00	624.00	\$498.10	97.61 %	97.61 %	97.61 %
June	96.00%	5.32	597.74	606.00	606.00	\$479.38	96.18 %	96.18 %	96.18 %
July	97.00%	5.39	607.37	613.00	613.00	\$487.11	96.78 %	96.78 %	96.78 %
August	99.00%	5.21	587.00	587.00	587.00	\$470.77	98.71 %	98.71 %	98.71 %
September	96.00%	4.79	537.75	554.00	554.00	\$431.27	96.13 %	96.13 %	96.13 %
October	67.00%	2.40	291.16	442.00	442.00	\$233.51	65.93 %	65.93 %	65.93 %
November	7.00%	0.13	14.04	223.00	223.00	\$11.26	6.79 %	6.79 %	6.79 %
December	0.00%	0.00	0.00	257.00	257.00	\$0.00	0.17 %	0.17 %	0.17 %
<b>Totals</b>	<b>66.88%</b>	<b>38.74</b>	<b>4,493.66</b>	<b>5,737.00</b>	<b>5,737.00</b>	<b>\$3,603.92</b>	<b>67.10 %</b>	<b>67.10 %</b>	<b>67.10 %</b>
	<b>Unweighted Yearly Avg</b>	<b>Effect: 78.57%</b> <b>Sun Hrs: 3.23</b>					<b>Unweighted Yearly Avg</b>	<b>Unweighted Yearly Avg</b>	<b>Unweighted Yearly Avg</b>

Notes: [None]





# Summary Report

## Solar Obstruction Data

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	<b>Unweighted Yearly Avg</b>	<b>Effect: 78.57%</b> <b>Sun Hrs: 3.23</b>					<b>Unweighted Yearly Avg</b>	<b>Unweighted Yearly Avg</b>	<b>Unweighted Yearly Avg</b>

Notes: Shading Analysis  
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